

# WEST COUNTY POWER PARTNERS, LLC

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Florida Power & Light Company  
West County Energy Center – Unit 2  
Permit No. – PSD-FL-354  
DEP File No. – 0990646-001-AC

WCPP Project 144553  
WCPP Files 14.0100/32.0585  
WCPP-2010-TP-597  
January 11, 2010

RECEIVED  
Special Express Mail

JAN 12 2010

BUREAU OF AIR REGULATION

Ms. Elizabeth Walker  
Florida Department of Environmental Protection  
Division of Air Resource Management  
Bureau of Air Regulation, Bureau Chief  
2600 Blair Stone Road, MS 5500  
Tallahassee, FL 32399-2400

Subject: Ammonia Flow Meter Calibrations for Unit #2

Dear Ms. Walker:

On behalf of Florida Power & Light Company (FPL) and its Designated Representative, Sheila M. Wilkinson, the West County Power Partners, LLC (WCPP), EPC Contractor for construction of the new combined cycle generating unit at the FPL West County Energy Center – Unit 2, is submitting this notification in accordance with the regulations cited below.

This correspondence is to serve as notification to the Department, in accordance with the Florida Statutes, Chapter 62-4 and 62-212 of the Florida Administrative Code [Rules 62-4.070(3) and 62-212.400 (BACT), F.A.C.]. FPL is providing this notification of the ammonia flow meter calibrations for Unit 2 (CT – 2A, 2B, and 2C).

In accordance with these conditions, West County Power Partners is hereby submitting the ammonia flow meter calibrations and the corresponding transmitter configuration reports. Below are the individual flow meter calibration and transmitter configuration reports for each CT.

- 1) CT 2A -- Flow Meter Calibration Serial ID: 14143035  
Transmitter Configuration Serial ID: 3130063
- 2) CT 2B -- Flow Meter Calibration Serial ID: 14074974  
Transmitter Configuration Serial ID: 7311401
- 3) CT 2C -- Flow Meter Calibration Serial ID: 14072755  
Transmitter Configuration Serial ID: 7311578

Attached are the corresponding documents for the ammonia flow calibrations for Unit #2.

If you have any questions about this notification, please contact Terry Apple at (913) 458-7220 or John Tidwell at (561) 784-8048.

Very truly yours,


WEST COUNTY POWER PARTNERS, LLC


  
Chet Lloyd  
Project Executive

Enclosures

cc: Dave McNeal, USEPA Air, Pesticides and Toxics Management  
Art Diem, USEPA Clean Air Markets Division  
Errin Pichard, FDEP Air Resource Management  
Lee Hoefert, FDEP Southeast District  
Tim Gray, FDEP Southeast District  
Tom Cascio, FDEP Bureau of Air Regulation  
Mike Halpin, FDEP Sitting Coordination Office  
K. M. Davis, FPL ACG/GO  
E.N. Scoville II, FPL Director Construction  
Sheila M. Wilkinson, FPL Designated Rep  
Laxmana Tallam, PBC Health Department  
Michael Helmke, PBC Health Department  
Jim Stormer, PBC Health Department  
Tom Tittle, PBC Health Department  
E.N. Scoville II, FPL Director Construction  
Tom Young, FPL Construction Project General Manager  
Jan Kirwan, FPL Environmental Specialist  
Carmine Priore, FPL Plant General Manager  
Chet Lloyd, WCPP Project Executive  
John Tidwell, WCPP Senior Project Manger  
Greg Hines, WCPP Site Environmental Manager  
Terry Apple, WCPP Project Manager/ Project File  
William Stevenson, WCPP Environmental Specialist

**Micro Motion, Inc.****Mass Flowmeter Calibration Certificate****14143035**

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
R025S319NCAAEZZZZ	14143035	 10068464	1	1	

**Process**Process ID: 7.19287484 

Process Time: 2009.07.07 13:32:51

Process Stand: TSM1D@SSCC

Stand Uncertainty: +/-0.03%

Fluid: H2O

100% Rate: 22.6796 KG/MIN

Pickoff: 1

100% P/T: 55.95 PSIG/25.5 C

**Results**

Status: PASS

D1: 0

D2: 1

K1: 4484.114

K2: 4707.448

DT: 4.34

FD: 0

DTG: 0

DFQ1: 0

DFQ2: 0

FlowCal: 39.2694.65

FFQ: 0

FTG: 0

DensCal: 04484047074.34

FCF: 39.269

FT: 4.65

S. HERNANDEZ  
Technician

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
R025S319NCAAEZZZZ	14143035	10068464	1	1	
1700I111ABAEZZZ	3130063	10068464	2	1	
PUCK700	16098689				

**Process**

Process ID: 1.25050855  
 Process Time: 2009.08.18 22:03:12  
 Process Stand: SSCB-CONFIG1@SSCB



**Sensor**

D1: 0  
 D2: 1  
 DFQ1: 0  
 DFQ2: 0  
 DT: 4.34  
 DTG: 0  
 Density Meter Factor: 1  
 Density Press Comp Factor: 0  
 FCF: 39.269  
 FD: 0  
 FFQ: 0  
 FT: 4.65  
 FTG: 0  
 Flow Cal Pressure PSI: 0  
 Flow Press Comp Factor: 0  
 K1: 4484.114  
 K2: 4707.448  
 Mass Flow Meter Factor: 1  
 Temperature Cal Factor: 1.00000T.00000  
 Volume Flow Meter Factor: 1

**Units**

Special Volume Base Unit: LITER  
 Special Volume Conv Factor: 1  
 Special Volume Flow Text: NONE  
 Special Volume Time Unit: SEC  
 Special Volume Total Text: NONE  
 Temperature Unit: DEGC  
 Volume Flow Unit: L/MIN

**Assignments**

Event 1 Variable: DENSITY  
 Event 2 Variable: DENSITY  
 Frequency Scaling Method: FREQUENCY/FLOW  
 Frequency Variable: MASS FLOW RATE  
 mA1 Variable: MASS FLOW RATE

**Ranges**

Event 1 Setpoint: 0  
 Event 1 Type: LOW ALARM  
 Event 2 Setpoint: 0  
 Event 2 Type: LOW ALARM  
 Frequency Active State: ACTIVE HIGH  
 Frequency Hertz: 1000  
 Frequency Pulses/Unit: 2645.549  
 Frequency Rate: 22.6796  
 Frequency Units/Pulse: 0.0003779933  
 mA1 LRV: 0  
 mA1 URV: 22.6796

**Units**

Density Unit: G/CUCM  
 Mass Flow Unit: KG/MIN  
 Pressure Unit: PSI  
 Special Mass Base Unit: GRAM  
 Special Mass Conv Factor: 1  
 Special Mass Flow Text: NONE  
 Special Mass Time Unit: SEC  
 Special Mass Total Text: NONE

**Faults**

Frequency Fault Behavior: DOWNSCALE  
 Frequency Fault Value: 15000  
 RS485 Fault Behavior: NONE

## Faults

mA1 Fault Behavior: DOWNSCALE

mA1 Fault Value: 2

## Other

Calibration Process ID: 7.19287484

Core Software Rev: 28

Density Cutoff: 0.2

Density Damping: 1.6

Density High Limit: 5

Density Low Limit: 0

Direction: FORWARD

Fault Dwell Time: 0

Feature Key: 2

Flow Damping: 0.8

HART Device ID: 16094950

Mass Flow Cutoff: 0.06479999

Pressure Comp Line Pressure: 0

Pressure Compensation State: OFF

RS485 Baud: 1200

RS485 Parity: ODD

RS485 Protocol: HART

Slug Duration: 0


Tag:

Temperature Damping: 4.8

Transmitter Software Rev: 52

Volume Flow Cutoff: 0.06479999

**Micro Motion, Inc.****Mass Flowmeter Calibration Certificate****14074974**

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
R025S319NIAUEZZZZ	14074974	 10039125	1	1	

**Process**Process ID: 7.19165150 

Process Time: 2008.01.28 12:59:41

Process Stand: TSM1E@SSCC

Stand Uncertainty: +/-0.03%

Fluid: H2O

100% Rate: 22.6796 KG/MIN

Pickoff: 1

100% P/T: 42.4 PSIG/20.6 C

**Results**

Status: PASS

D1: 0

D2: 1

K1: 4484.359

K2: 4703.736

DT: 4.34

FD: 0

DTG: 0

DFQ1: 0

DFQ2: 0

FlowCal: 40.0724.65

FFQ: 0

FTG: 0

DensCal: 04484047044.34

FCF: 40.072

FT: 4.65

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O. LAREDO  
Technician

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
R025S319NIAUEZZZZ	14074974	10039125	1	1	
IFT9703IC6N3UEZ	7311401	10039125	2	1	

**Process**

Process ID: 1.23139659  
Process Time: 2008.02.28 1:27:41  
Process Stand: SSCB-CONFIG1@SSCB



**Sensor**

DensCal: 04484047044.34  
FlowCal: 40.0724.65

**Units**

Flow Unit: KG/MIN

**Ranges**


Frequency Hertz: 1000  
Frequency Rate: 22.67959  
mA1 LRV: 0  
mA1 URV: 22.67959

**Other**

Calibration Process ID: 7.19165150  
Flow Damping: 0.8  
Mass Flow Cutoff: 0.06479996

**Micro Motion, Inc.****Mass Flowmeter Calibration Certificate****14072755**

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
R025S319NIAUEZZZZ	14072755	 10039125	1	3	.

**Process**Process ID: 7.19164396 

Process Time: 2008.01.26 2:30:49

Process Stand: TSM1E@SSCC

Stand Uncertainty: +/-0.03%

Fluid: H2O

100% Rate: 22.6796 KG/MIN

Pickoff: 1

100% P/T: 55.33 PSIG/21.2 C

**Results**

Status: PASS

D1: 0

D2: 1

K1: 4449.957

K2: 4668.984

DT: 4.34

FD: 0

DTG: 0

DFQ1: 0

DFQ2: 0

FlowCal: 39.9214.65

FFQ: 0

FTG: 0

DensCal: 04450046694.34

FCF: 39.921

FT: 4.65

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C. MOLINA  
Technician



**Micro Motion, Inc.****Transmitter Configuration Report****7311578**

Product Code	Serial ID	Order ID	Line	Item	Customer Tag
R025S319NIAUEZZZZ	14072755	10039125	1	3	
IFT9703IC6N3UEZ	7311578	10039125	2	3	

**Process**

Process ID: 1.23139786  
Process Time: 2008.02.28 2:10:58  
Process Stand: SSCB-CONFIG1@SSCB

**Sensor**

DensCal: 04450046694.34  
FlowCal: 39.9214.65

**Units**

Flow Unit: KG/MIN

**Ranges**

Frequency Hertz: 1000  
Frequency Rate: 22.67959  
mA1 LRV: 0  
mA1 URV: 22.67959

**Other**

Calibration Process ID: 7.19164396  
Flow Damping: 0.8  
Mass Flow Cutoff: 0.06479996